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STIC Database Tracking Number: 138220

TO: Jon E Angell
Location: REM-2C18
Art Unit: 1635
Thursday, November 18, 2004
Case Serial Number: 10/023317

From: Paul Schulwitz
Location: Biotech-Chem Library
REM-1A65
Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Angell,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jon Eric Angell Examiner # : 78697 Date: 11-15-04
Art Unit: 1635 Phone Number ~~30~~ 2-0756 Serial Number: 10/023,317
Mail Box and Bldg/Room Location: REM2D20 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): Plant et al.

_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

See attached claims - discussed search requirements with STIC searcher (Bob O'Bryan)

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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#)_____	STN _____
Searcher Phone #: _____	AA Sequence (#)_____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time _____	Other _____	Other (specify)_____

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L27                STR
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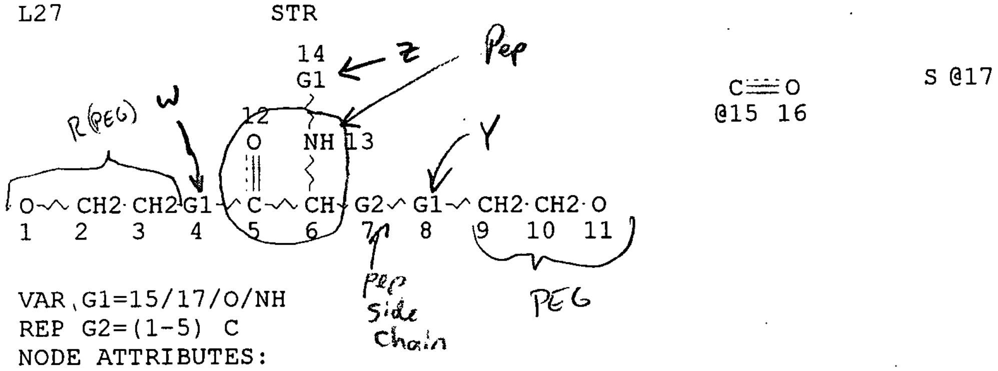

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DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
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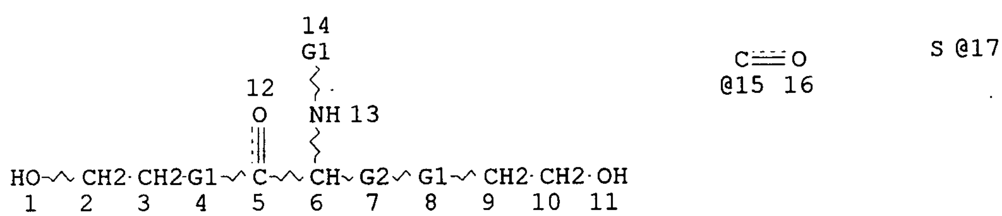

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NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
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L35            5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33


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L35  ANSWER 1 OF 5  HCAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        2001:12528  HCAPLUS
DOCUMENT NUMBER:         134:91177
```

TITLE: Combinations for introducing nucleic acids into cells for gene therapy
INVENTOR(S): Plank, Christian; Stemberger, Axel; Scherer, Franz
PATENT ASSIGNEE(S): Germany
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000708	A1	20010104	WO 2000-EP5778	20000621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1063254	A1	20001227	EP 1999-112260	19990625
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19956502	A1	20010531	DE 1999-19956502	19991124
CA 2377207	AA	20010104	CA 2000-2377207	20000621
EP 1198489	A1	20020424	EP 2000-936907	20000621
EP 1198489	B1	20040428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003503370	T2	20030128	JP 2001-506715	20000621
AT 265488	E	20040515	AT 2000-936907	20000621
US 2003026840	A1	20030206	US 2001-23317	20011217

PRIORITY APPLN. INFO.:

EP 1999-112260	A	19990625
DE 1999-19956502	A	19991124
WO 2000-EP5778	W	20000621

AB The invention relates to combinations of a carrier and a complex, which consists of a nucleic-acid mol. and a copolymer to be used as drug delivery system in gene therapy. Said copolymer consists of an amphiphilic polymer, preferably polyethylene glycol and a charged effector mol., in particular, a peptide or peptide derivative The invention also relates to the use of the combinations for transferring nucleic acid mols. into cells. The carrier is non-biodegradable or biodegradable, e.g collagen. Copolymer-protected gene vectors were used to transfect cells and also applied as implants.

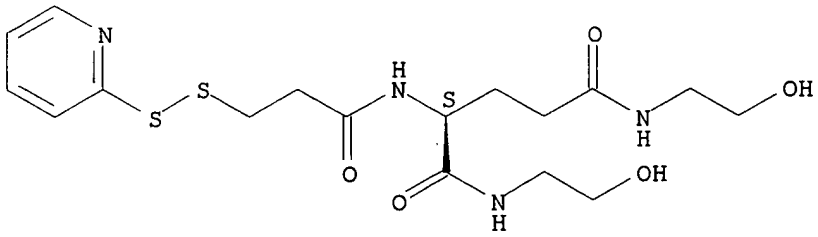
IT **316381-65-4P 316381-71-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(combinations for introducing nucleic acids into cells for gene therapy)

RN 316381-65-4 HCAPLUS
CN Pentanediamide, N,N'-bis(2-hydroxyethyl)-2-[[1-oxo-3-(2-pyridinyldithio)propyl]amino]-, (2S)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 316381-64-3
CMF C17 H26 N4 O5 S2

Absolute stereochemistry.

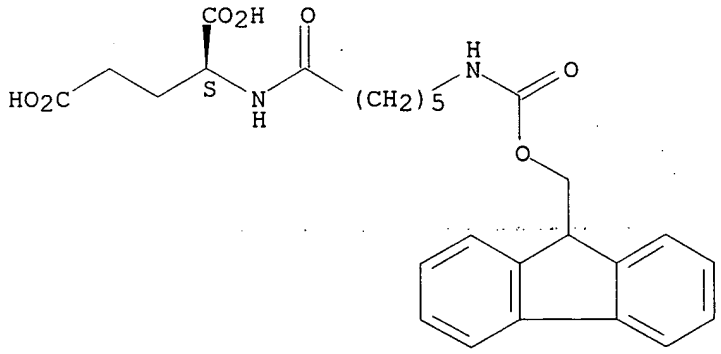


RN 316381-71-2 HCAPLUS
CN L-Glutamic acid, N-[6-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-1-oxohexyl]-, polymer with (2S)-N,N'-bis(2-hydroxyethyl)-2-[[1-oxo-3-(2-pyridinyldithio)propyl]amino]pentanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 316381-69-8
CMF C26 H30 N2 O7

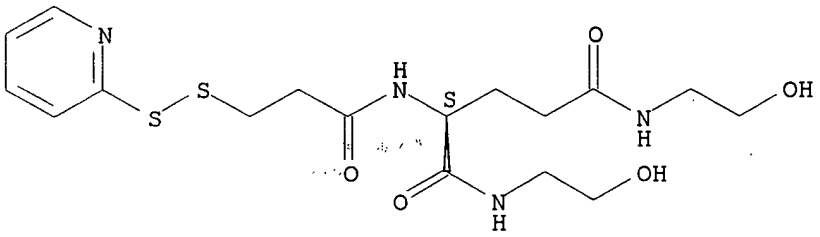
Absolute stereochemistry.



CM 2

CRN 316381-64-3
CMF C17 H26 N4 O5 S2

Absolute stereochemistry.

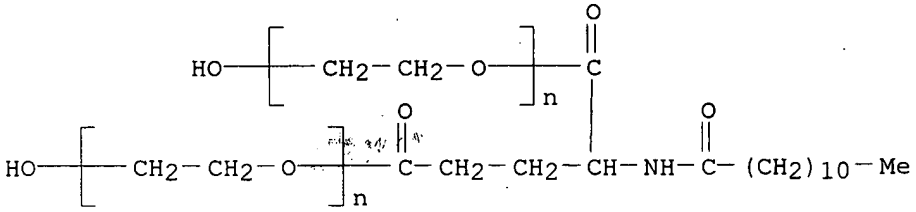


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:597695 HCAPLUS
DOCUMENT NUMBER: 103:197695
TITLE: Surfactants with amino linkage between the hydrophilic and hydrophobic groups. I. Synthesis of various types of surfactants from N-acyl-α-amino acids and their properties
AUTHOR(S): Kuwamura, Tsunehiko; Aoki, Osamu; Suto, Nobukazu
CORPORATE SOURCE: Fac. Technol., Gunma Univ., Kiryu, Japan
SOURCE: Yukagaku (1985), 34(8), 626-33
CODEN: YKGKAM; ISSN: 0513-398X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Four series [anionic, cationic, zwitterionic, and polyoxyethylene (POE) nonionic] of surfactants with peptide linkages were prepared from various N-dodecanoyl-α-amino acids. The aqueous properties [Krafft point, cloud point, critical micelle concentration (CMC), surface tension] and gross effects (foaming, emulsifying, detergency) of these products were examined and compared with those of surfactants without peptide linkages for each series. The effects of peptide linkages on aqueous properties depended primarily on the hydrophobicity of the α-amino acid used. Glycine and alanine linkages generally caused an increase in hydrophilicity and a slight change in CMC and surface tension for all series studied. Some nonionics having hydrophilic peptide linkages and shorter POE chains had both Krafft and cloud points at 20-.apprx.90° and exhibited high surface activity. These nonionics were effective oil-water emulsifying agents against relatively polar oils and showed good detergency. The surfactants with peptide linkages were highly biodegradable.

IT **69813-72-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and surfactant properties of)
RN 69813-72-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α'-[1,5-dioxo-2-[(1-oxododecyl)amino]-1,5-pentanediyl]bis[ω-hydroxy-, (S)- (9CI) (CA INDEX NAME)



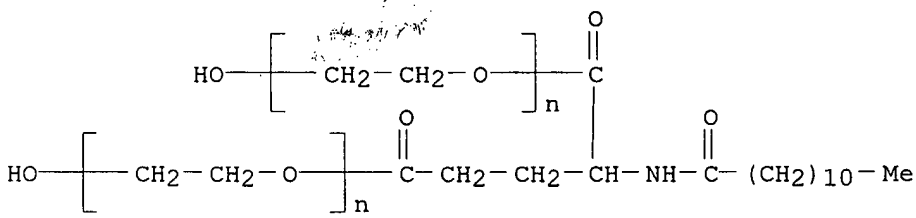
L35 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:144244 HCAPLUS
DOCUMENT NUMBER: 90:144244
TITLE: Antistatic agents for photographic materials
INVENTOR(S): Yoneyama, Shozo; Tsuji, Nobuo; Sugimoto, Naohiko
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53129623	A2	19781111	JP 1977-44964	19770419
JP 57018177	B4	19820415		
PRIORITY APPLN. INFO.:			JP 1977-44964	19770419

AB Polyoxyethylene alc. esters of N-acyl-α-amino acids are used as photog. antistatic agents. Thus, a compound of the formula HO(CH2CH2O)10COCH2CH2CH(NHCOC11H23)CO2(CH2CH2O)10H 55 mg/m2 was added to the protective layer of a Ag halide photog. film. The photog. film did not show any static marks even when the surface was rubbed with a rubber roller.

IT **69813-72-5**
RL: USES (Uses)
(coatings, antistatic, for silver halide photog. films)

RN 69813-72-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α'-[1,5-dioxo-2-[(1-oxododecyl)amino]-1,5-pentanediyl]bis[ω-hydroxy-, (S)- (9CI) (CA INDEX NAME)



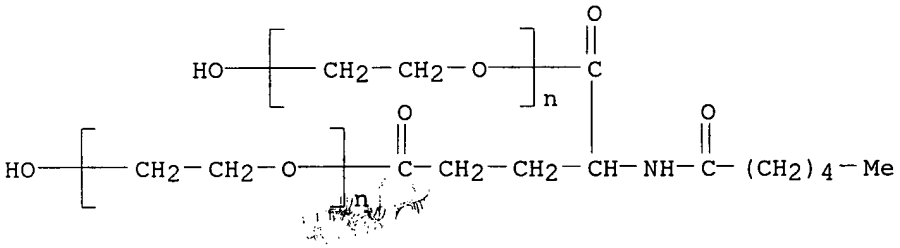
L35 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1976:140612 HCAPLUS

DOCUMENT NUMBER: 84:140612
TITLE: Skin cosmetics containing N-lower acyl amino acid diesters
INVENTOR(S): Ichikawa, Tomomichi; Fukami, Shigetoshi; Saito, Tadaomi; Ninagawa, Sadayoshi
PATENT ASSIGNEE(S): Nihon Emarujon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49092237	A2	19740903	JP 1973-1055	19721229
JP 60020361	B4	19850521		
PRIORITY APPLN. INFO.:			JP 1973-1055	19721229

AB N-lower acyl amino acid diesters (acyl = C1-7; esters = higher alcs., polyoxyalkylene glycol higher alc. ethers, or polyalkylene glycol higher fatty acid monoesters) were added to skin cosmetics to improve the quality and cosmetic appeal. Thus, a cold cream contained liquid paraffin 36.5, petrolatum 10, solid paraffin 7.0, N-caproyl-L-glutamic acid dicetyl ester [58830-14-1] 5.0 purified lanolin 0.9, cetyl alc. 1.9, polyethylene glycol stearic acid diester 1.6, polyoxyethylene stearyl ether 4.5, polyoxyethylene oleyl ether 0.4, polyethylene glycol 0.2, Na lauryl sulfate 0.05, Na dehydroacetate 0.05, ion-exchanged H2O 31.5 and perfume 0.4%.

IT **58831-70-2**
RL: BIOL (Biological study)
(cosmetic containing)
RN 58831-70-2 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α'-[1,5-dioxo-2-[(1-oxohexyl)amino]-1,5-pentanediyl]bis[ω-hydroxy-, (S)- (9CI) (CA INDEX NAME)



L35 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1968:463554 HCAPLUS
DOCUMENT NUMBER: 69:63554
TITLE: Poly(vinyl carbamates) useful in photographic elements
INVENTOR(S): Minsk, Louis M.; Abel, Edward P.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 4 pp. Division of U.S. 3316097
CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3392151	A	19680709	US 1966-619104	19661227

PRIORITY APPLN. INFO.: US 1966-619104 19661227

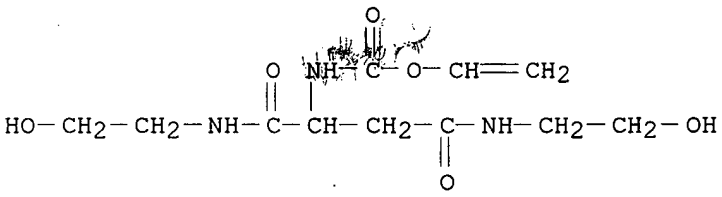
AB Division of U.S. 3,316,097 (CA 67:59594h). The disclosure is the same but the claims are different.

IT **29223-67-4 29223-68-5**
RL: USES (Uses)
(in photographic emulsion for increased covering power)

RN 29223-67-4 HCAPLUS
CN Carbamic acid, [1,2-bis[(2-hydroxyethyl)carbamoyl]ethyl]-, vinyl ester, polymers (8CI) (CA INDEX NAME)

CM 1

CRN 45242-55-5
CMF C11 H19 N3 O6



RN 29223-68-5 HCAPLUS
CN Carbamic acid, [1,3-bis[(2-hydroxyethyl)carbamoyl]propyl]-, vinyl ester, polymers (8CI) (CA INDEX NAME)

CM 1

CRN 45259-09-4
CMF C12 H21 N3 O6